



IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/807,742B

DATE: 09/03/2004

TIME: 11:05:49

Input Set : A:\CHL-T104XC1.ST25.txt

Output Set: N:\CRF4\09032004\I807742B.raw

3 <110> APPLICANT: Daniell, Henry  
 5 <120> TITLE OF INVENTION: Pharmaceutical Proteins, Human Therapeutics, Human Serum  
 Albumin

6 Insulin, Native Cholera Toxic B Submitted on Transgenic Plastids  
 8 <130> FILE REFERENCE: CHL-T104XC1

10 <140> CURRENT APPLICATION NUMBER: US 09/807,742B  
 11 <141> CURRENT FILING DATE: 2001-04-18

13 <150> PRIOR APPLICATION NUMBER: PCT/US01/06288  
 14 <151> PRIOR FILING DATE: 2001-02-28

16 <160> NUMBER OF SEQ ID NOS: 26

18 <170> SOFTWARE: PatentIn version 3.2

20 <210> SEQ ID NO: 1

21 <211> LENGTH: 1250

22 <212> TYPE: PRT

23 <213> ORGANISM: Artificial sequence

25 <220> FEATURE:

26 <223> OTHER INFORMATION: Protein-based polymer (PBP) made from synthetic genes.

28 <400> SEQUENCE: 1

30 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 31 1 5 10 15  
 34 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 35 20 25 30  
 38 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 39 35 40 45  
 42 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 43 50 55 60  
 46 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 47 65 70 75 80  
 50 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 51 85 90 95  
 54 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 55 100 105 110  
 58 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 59 115 120 125  
 62 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 63 130 135 140  
 66 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 67 145 150 155 160  
 70 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 71 165 170 175  
 74 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 75 180 185 190  
 78 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 79 195 200 205



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```

82 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
83      210                      215                      220
86 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
87 225                      230                      235                      240
90 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
91      245                      250                      255
94 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
95      260                      265                      270
98 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
99      275                      280                      285
102 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
103      290                      295                      300
106 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
107 305                      310                      315                      320
110 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
111      325                      330                      335
114 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
115      340                      345                      350
118 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
119      355                      360                      365
122 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
123      370                      375                      380
126 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
127 385                      390                      395                      400
130 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
131      405                      410                      415
134 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
135      420                      425                      430
138 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
139      435                      440                      445
142 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
143      450                      455                      460
146 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
147 465                      470                      475                      480
150 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
151      485                      490                      495
154 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
155      500                      505                      510
158 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
159      515                      520                      525
162 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
163      530                      535                      540
166 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
167 545                      550                      555                      560
170 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
171      565                      570                      575
174 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
175      580                      585                      590
178 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly

```

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```

179          595          600          605
182 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
183          610          615          620
186 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
187 625          630          635          640
190 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
191          645          650          655
194 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
195          660          665          670
198 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
199          675          680          685
202 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
203          690          695          700
206 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
207 705          710          715          720
210 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
211          725          730          735
214 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
215          740          745          750
218 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
219          755          760          765
222 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
223          770          775          780
226 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
227 785          790          795          800
230 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
231          805          810          815
234 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
235          820          825          830
238 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
239          835          840          845
242 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
243          850          855          860
246 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
247 865          870          875          880
250 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
251          885          890          895
254 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
255          900          905          910
258 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
259          915          920          925
262 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
263          930          935          940
266 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
267 945          950          955          960
270 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
271          965          970          975
274 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
275          980          985          990

```

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```

278 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
279      995      1000      1005
282 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
283      1010      1015      1020
286 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
287      1025      1030      1035
290 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
291      1040      1045      1050
294 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
295      1055      1060      1065
298 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
299      1070      1075      1080
302 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
303      1085      1090      1095
306 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
307      1100      1105      1110
310 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
311      1115      1120      1125
314 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
315      1130      1135      1140
318 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
319      1145      1150      1155
322 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
323      1160      1165      1170
326 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
327      1175      1180      1185
330 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
331      1190      1195      1200
334 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
335      1205      1210      1215
338 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
339      1220      1225      1230
342 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
343      1235      1240      1245
346 Val Pro
347      1250
350 <210> SEQ ID NO: 2
351 <211> LENGTH: 6
352 <212> TYPE: PRT
353 <213> ORGANISM: Artificial Sequence
355 <220> FEATURE:
356 <223> OTHER INFORMATION: Illustrative endoplasmic reticulum retention signal
358 <400> SEQUENCE: 2
360 Ser Glu Lys Asp Glu Leu
361 1      5
364 <210> SEQ ID NO: 3
365 <211> LENGTH: 4
366 <212> TYPE: PRT
367 <213> ORGANISM: Artificial sequence

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```

369 <220> FEATURE:
370 <223> OTHER INFORMATION: Illustrative peptide
372 <400> SEQUENCE: 3
374 Gly Pro Gly Pro
375 1
378 <210> SEQ ID NO: 4
379 <211> LENGTH: 25
380 <212> TYPE: DNA
381 <213> ORGANISM: Artificial Sequence
383 <220> FEATURE:
384 <223> OTHER INFORMATION: Primer
386 <400> SEQUENCE: 4
387 ccgtcgacgt agagaagtcc gtatt
390 <210> SEQ ID NO: 5
391 <211> LENGTH: 27
392 <212> TYPE: DNA
393 <213> ORGANISM: Artificial Sequence
395 <220> FEATURE:
396 <223> OTHER INFORMATION: Primer
398 <400> SEQUENCE: 5
399 gcccatggta aaatcttggt ttattta
402 <210> SEQ ID NO: 6
403 <211> LENGTH: 28
404 <212> TYPE: DNA
405 <213> ORGANISM: Artificial Sequence
407 <220> FEATURE:
408 <223> OTHER INFORMATION: Primer
410 <400> SEQUENCE: 6
411 cctttaaaaa gccttcatt ttctattt
414 <210> SEQ ID NO: 7
415 <211> LENGTH: 25
416 <212> TYPE: DNA
417 <213> ORGANISM: Artificial Sequence
419 <220> FEATURE:
420 <223> OTHER INFORMATION: Primer
422 <400> SEQUENCE: 7
423 gccatggtaa aatcttggtt tatta
426 <210> SEQ ID NO: 8
428 <400> SEQUENCE: 8
W--> 429 000
431 <210> SEQ ID NO: 9
432 <211> LENGTH: 5
433 <212> TYPE: PRT
434 <213> ORGANISM: Artificial Sequence
436 <220> FEATURE:
437 <223> OTHER INFORMATION: Synthetic peptide
439 <400> SEQUENCE: 9
441 Ala Val Gly Val Pro
442 1 5

```

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/807,742B

DATE: 09/03/2004

TIME: 11:05:50

Input Set : A:\CHL-T104XC1.ST25.txt

Output Set: N:\CRF4\09032004\I807742B.raw

L:429 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (8) SEQUENCE: